

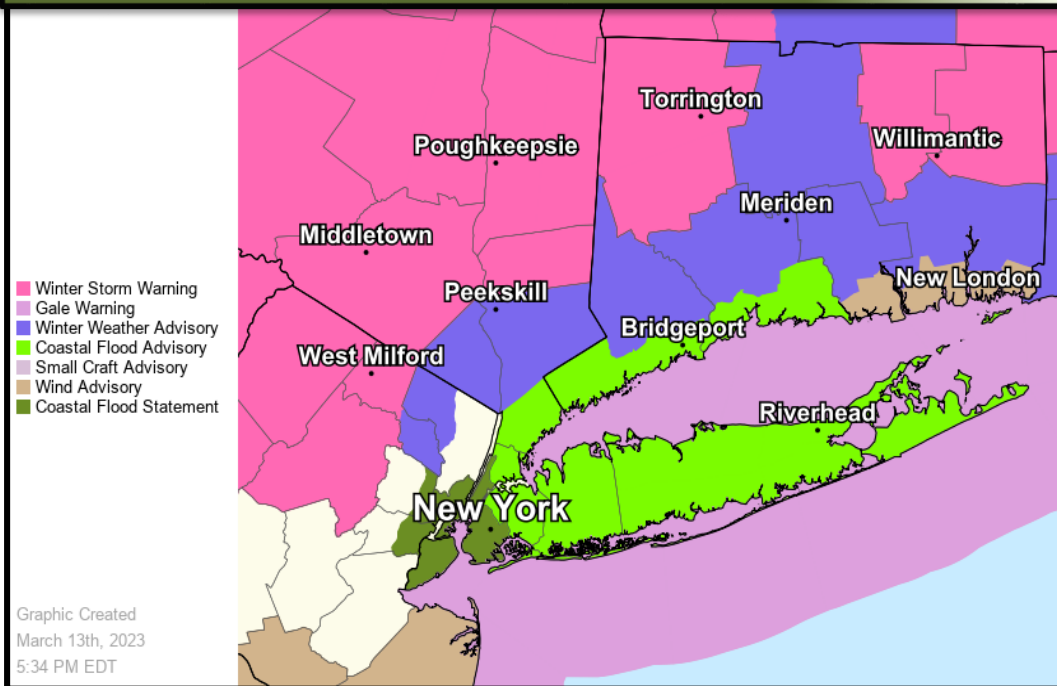
Nor'easter Tonight into Tomorrow Night...

PPT Briefing #3






What's Changed?

- Wind Advisory in effect for southern CT and Suffolk County NY late Tuesday into Wed AM

Current Hazards



Main Points – Nor'Easter

Hazard	Impacts	Location	Timing
Heavy Snow 5-10" likely, locally 1ft+ possible above 750ft Winter Storm Warning 	<ul style="list-style-type: none"> Snowfall Rates of 1-2"/hr likely Tonight into Tomorrow AM Scattered to numerous downed tree limbs and powerlines Difficult travel 	Interior portions of Lower Hud and NE NJ. Highest impact across elevations above 750 ft.	<ul style="list-style-type: none"> Rain changing to snow aft midnight Periods of heavy snow Tonight into Tomorrow AM Snow tapering late Tomorrow
Heavy Rain to Snow 2-2 1/2" of rain likely, locally 3" possible. 1-6" of snow accum N&W of NYC/coast 	<ul style="list-style-type: none"> Rainfall of 1" in 6hr, 2" in 12hr tonight into tomorrow am. Scattered areas of minor urban/small stream flooding likely Rain changes to snow tomorrow. Light to mod snow accum possible. 	NYC/NJ metro, SE CT and coastal areas.	<ul style="list-style-type: none"> Heavy rain tonight Rain changes to snow tomorrow Am/PM from NW to SE. Snow tapers off tomorrow night.
Strong Winds W/NW winds 25-35 w/ Gusts 45-50mph, isolated 50 to 60 mph 	<ul style="list-style-type: none"> Scattered downed tree limbs and power lines. 	Highest winds for E LI/ SE CT Rest of the area...W/NW wind 20-30 w/ gusts 40-45 mph.	<ul style="list-style-type: none"> Late Tue into Wed AM
Coastal Impacts 1 to locally 2 ft flooding above ground level (AGL) 	<ul style="list-style-type: none"> Minor to locally moderate coastal flood impacts Scattered dune erosion 	Locally moderate coastal flood threat along Peconic, Gardiners Bay, W LI Sound, and W Great South Bay	<ul style="list-style-type: none"> Times of high tide tonight
Marine Gale conditions 	<ul style="list-style-type: none"> Seas 8-12 ft on the Ocean Seas 3-5 ft central/eastern Long Island Sound and twin forks 	Nearshore Waters	<ul style="list-style-type: none"> Tonight into Wednesday

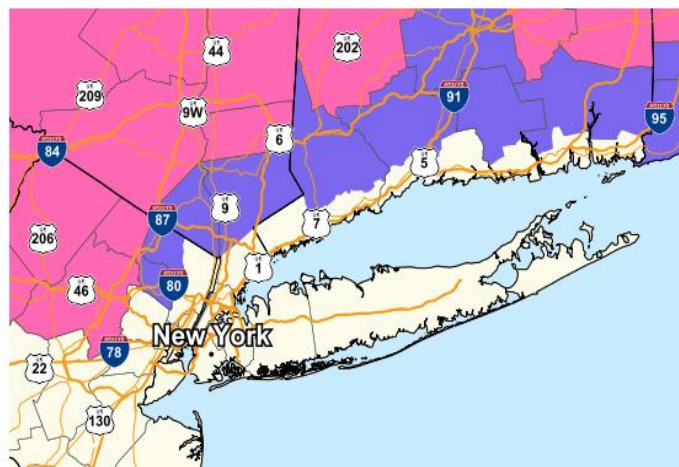


Heavy Snow Interior / Rain to Snow City/Coast



Winter Watches Warnings and Advisories

Winter Storm Warning
Winter Weather Advisory



Graphic Created
March 13th, 2023
4:34 PM CDT

Forecast Challenges:

- Confidence is high in a significant heavy wet snowfall for interior portions of Lower Hud and NE NJ, particularly above 750 ft.
- Confidence is increasing that although rain will change to snow for the NYC/NJ metro and coastal surroundings early tomorrow AM, the heaviest snow banding will remain to the north.
- Moderate snow banding is possible for the Tue aft/eve commute for the city and coast, but accumulations will likely be mainly on grassy surfaces until late in the afternoon into evening.

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Hazards and Impacts:

Interior portions of Lower Hud and NE NJ - **Winter Storm Warning**

- ✓ **Snow Accum:** 5-10". Locally 1+ ft possible. Highest amounts likely above 750ft.
- ✓ **Timing:** Rain changes to a brief period heavy snow after just before midnight. Periods of moderate to heavy snow tomorrow aft/eve, before coming to an end by around midnight.
- ✓ **Snowfall rates:** Up to 2"/hr just before midnight.
- ✓ **Snow Character:** Wet
- ✓ **Temps:** Lower 30s
- ✓ **Impacts:** **Scattered to numerous downed trees limbs and powerlines. Difficult travel for Tue AM and PM commute.**

Rockland, N. Westchester, W. Bergen, E. Passaic and interior S CT. Heavy Rain changing to snow late Tonight into Tue AM.

- ✓ **Snow Accum:** 2-6", heaviest across northern areas and highest elevations.
- ✓ **Timing:** Rain changes to snow from NW to SE late tonight into Tuesday AM. A period of moderate to heavy snow possible during the AM commute..
- ✓ **Snowfall rates:** Up to 1"/hr late tonight into Tue PM.
- ✓ **Snow Character:** Wet
- ✓ **Temps:** Lower to mid 30s
- ✓ **Impacts:** **Potential for locally moderate to heavy snow, and slushy/snow covered roads for Tue AM and PM commutes making for difficult travel**

NYC/M metro and Coast. Heavy Rain changing to snow Tue AM into afternoon from NW to SE.

- ✓ **Snow Accum:** Trace to 2"
- ✓ **Timing:** Rain changes to snow from NW to SE Tuesday AM into afternoon.
- ✓ **Snowfall rates:** Up to 1/2"/hr possible Tue aft/eve.
- ✓ **Snow Character:** Wet
- ✓ **Temps:** Lower to mid 30s
- ✓ **Impacts:** **Accumulation mainly on grassy surfaces. Potential for slushy accumulation on untreated roadways Tue Eve.**

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Most Likely Snowfall – Official Forecast

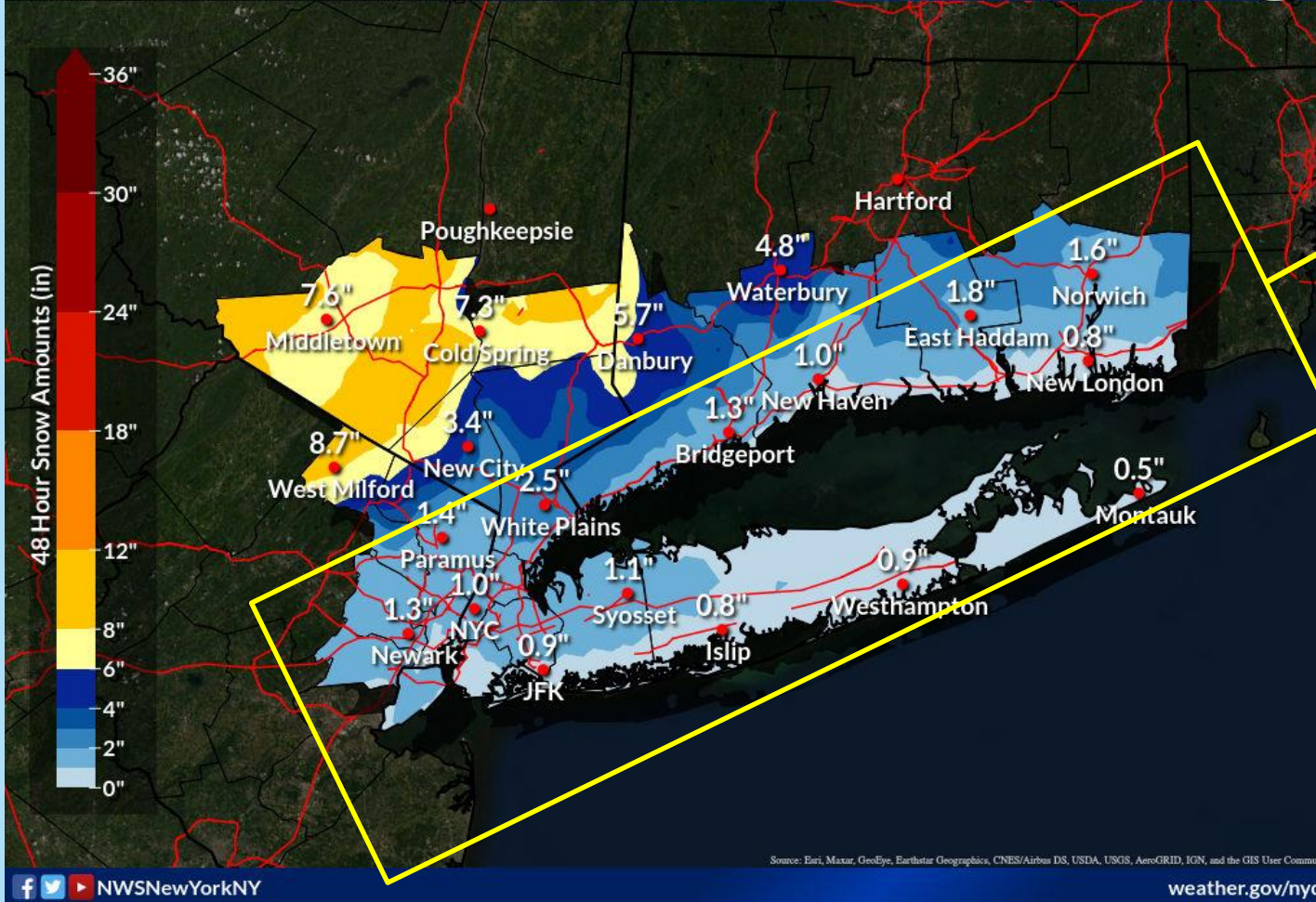
Expected Snowfall - Official NWS Forecast

Weather Forecast Office

New York, NY

Valid 8 PM Mon Mar 13, 2023 through 8 PM Wed Mar 15, 2023 EDT

Issued Mar 13, 2023 4:32 PM EDT



The greatest uncertainty in snow amounts is in the boxed area. It will be dependent on how quickly low pressure intensifies and how intense snow banding in this area.



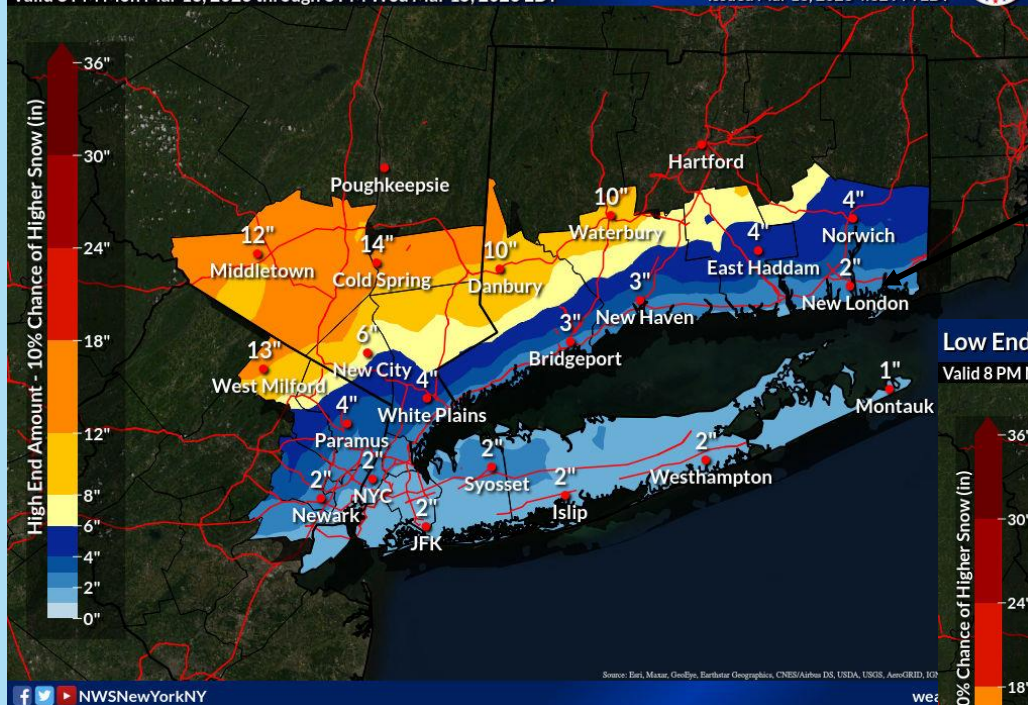
Probabilistic Snowfall Forecast

High End Amount - 1 in 10 Chance (10%) Of Higher Snowfall

Valid 8 PM Mon Mar 13, 2023 through 8 PM Wed Mar 15, 2023 EDT

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New York, NY

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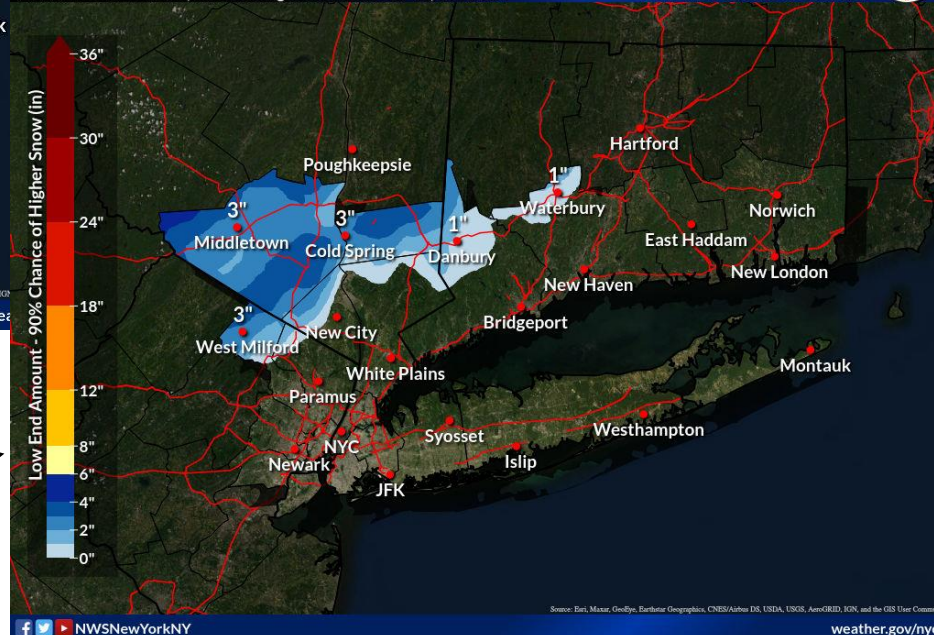
Snow amounts could be close to these levels if low pressure intensifies quicker than forecast, transitioning rain to snow earlier than forecast and/or developing heavy snow banding over more of the region.

Low End Amount - 9 in 10 Chance (90%) Of Higher Snowfall

Valid 8 PM Mon Mar 13, 2023 through 8 PM Wed Mar 15, 2023 EDT

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Expect at least this much snow. This would occur if low pressure is slower to intensify than forecast, keeping low levels warmer and snow banding less intense.



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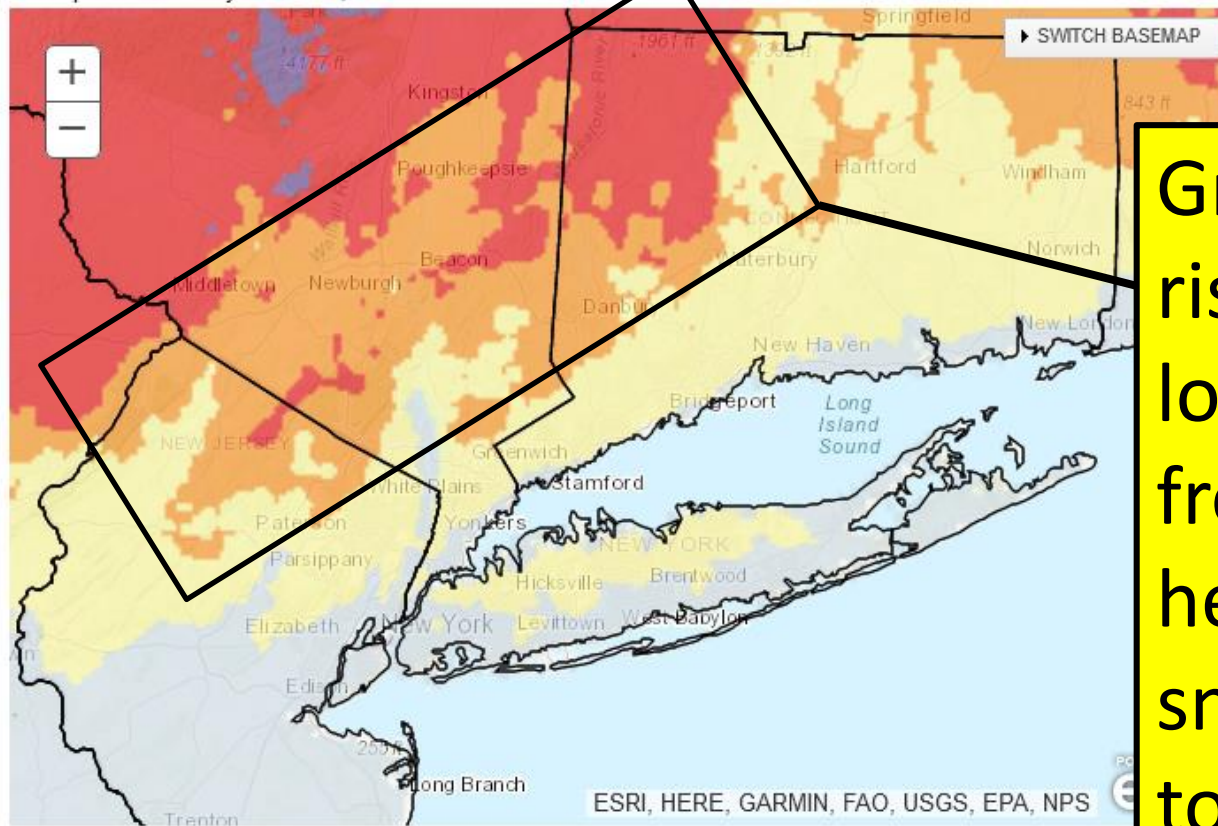
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Snow Load Impact

WSSI Snow Load -- Day3

Valid through Thu, Mar 16, 2023 02 PM ET








Greatest risk of snow load issues from 6+” of heavy wet snow tonight into Tuesday across the boxed area.

Potential Winter Storm Impacts

Winter Storm Severity Index (WSSI)

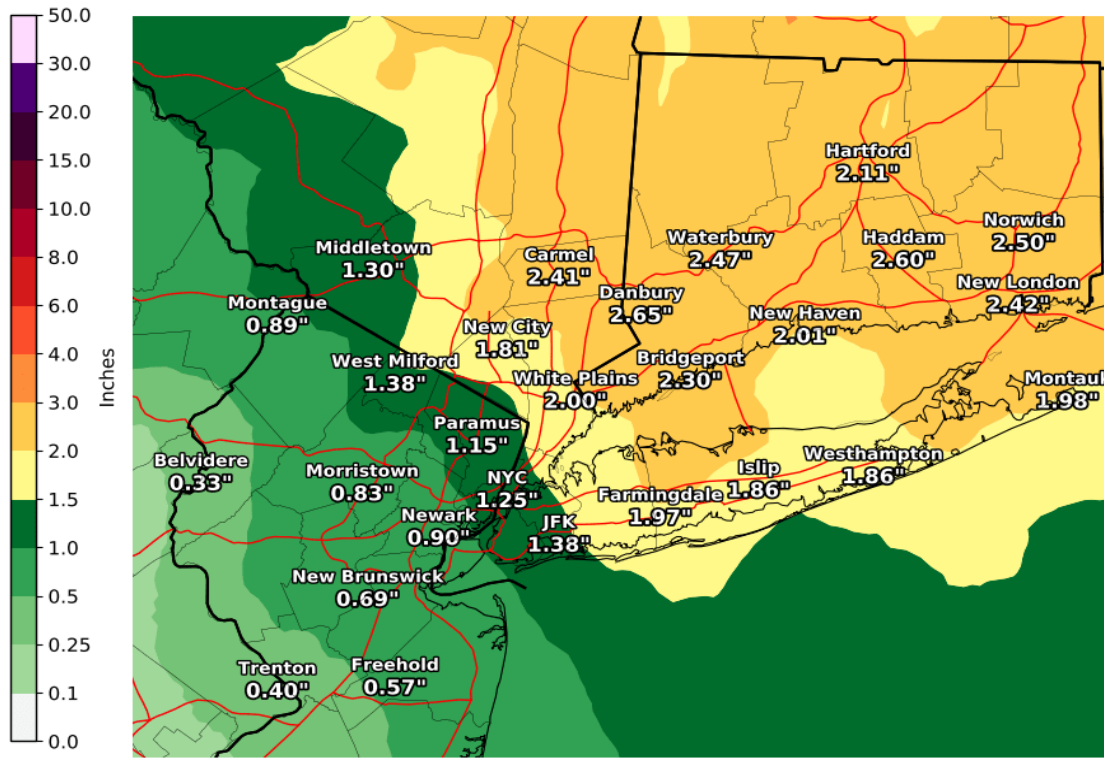
Issued: Mon, Mar 13, 2023 0

<p> Winter Weather Area Expect winter weather. • Winter driving conditions. Drive carefully.</p>	<p> Minor Impacts Expect a few inconveniences to daily life. • Winter driving conditions. Use Caution while driving.</p>	<p> Moderate Impacts Expect disruptions to daily life. • Hazardous driving conditions. Use extra caution while driving. • Closures and disruptions to infrastructure may occur.</p>	<p> Major Impacts Expect considerable disruptions to daily life. • Dangerous or impossible driving conditions. Avoid travel if possible. • Widespread closures and disruptions to infrastructure may occur.</p>	<p> Extreme Impacts Expect substantial disruptions to daily life. • Extremely dangerous or impossible driving conditions. Travel is not advised. • Extensive and widespread closures and disruptions to infrastructure may occur. • Life-saving actions needed.</p>
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Heavy Rain

Expected Rainfall/Liquid Equivalent

Valid: 03/13/2023 12:00 AM - 03/16/2023 12:00 PM EDT



Hazards and Impacts:

Heavy rainfall for NYC metro, LI, and S CT tonight into tomorrow morning:

- ✓ **Storm Total Rainfall:**
 - ✓ 1 1/2 to 2 1/2", locally 3". Heaviest across LI and CT.
- ✓ **Rainfall Rates:** Peak rates from 8pm to 10am Tonight into tomorrow AM. Highest across LI and S CT.
 - ✓ Moderate to high potential (>70%) for...
 - ✓ 1" in 6hr
 - ✓ 2" in 12hrs
 - ✓ Low potential (<30%) for 1" in 3 hr

Impacts:

- ✓ Scattered areas of minor urban and poor drainage flooding.
- ✓ Minor flooding possible along a few quick responding small rivers and streams of NE NJ and Lower Hudson Valley.
- ✓ Heavy rainfall during the times of high tide could exacerbate flooding in vulnerable coastal and shoreline communities.

Forecast Challenges:

Confidence is increasing in forecast rainfall amounts. Heaviest rain axis has slid a bit farther east.

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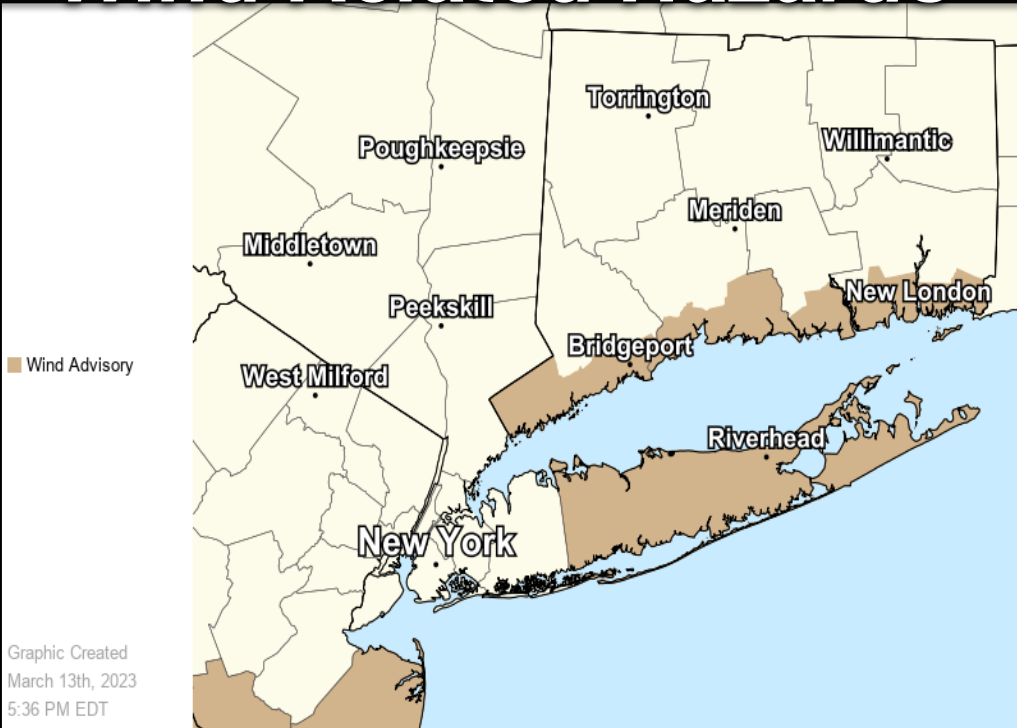


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Strong Winds

Wind Related Hazards



Hazards and Impacts:

Eastern Long Island and southeastern CT

- ✓ This evening into early Tuesday AM: East winds of 20 to 30 mph with gusts of 35 to 45 mph.
- ✓ Late tomorrow thru Wed AM: **Wind Advisory** - W/NW winds of 25 to 35 mph with gusts 45 to 50 mph late Tue into Wed AM. **Isolated damaging gusts 55 to 60 mph possible.**
- ✓ **Impacts:** **Scattered downed tree limbs and powerlines. A few trees could be downed.**

NYC and rest of coast

- ✓ This evening into Tonight: East winds of 20 to 25 mph with gusts 35 to 40 mph.
- ✓ Late tomorrow thru Wed AM: W/NW winds of 25 to 30 mph with gusts 40 to 45 mph. Isolated gusts to 50 mph possible.
- ✓ **Impacts:** A few downed tree limbs and powerlines.

Interior

- ✓ Late tomorrow thru Wed AM: W/NW winds of 20 to 25 mph with gusts 30 to 40 mph.
- ✓ **Impacts:** **Scattered to numerous downed tree limbs and powerlines possible due to snow load and winds.**

Forecast Challenges:

The exact track and intensification of low pressure will determine peak winds late Tuesday into Wednesday morning. The probability for damaging wind gusts, mainly across E LI and SE CT, is low at this time.

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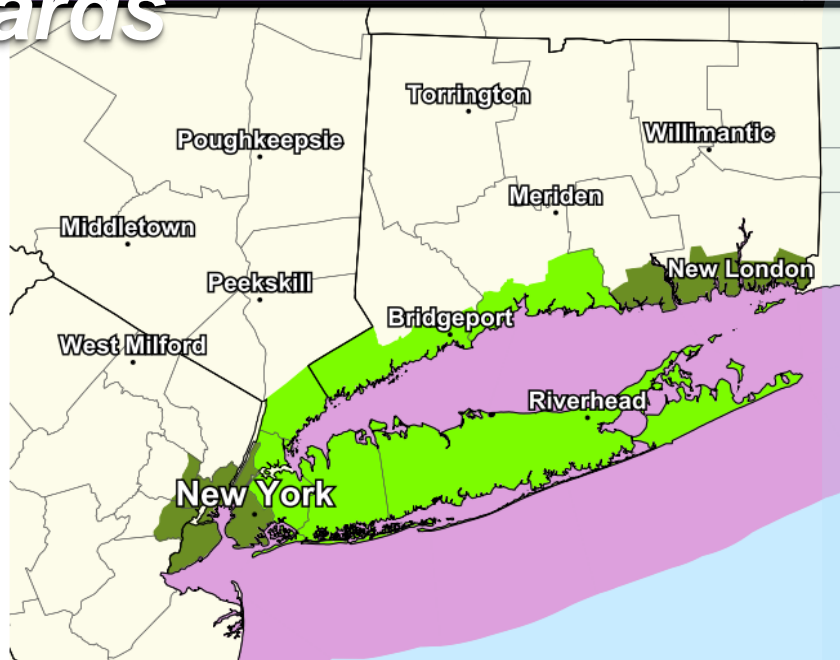


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Minor to Locally Moderate Coastal Flooding

Marine / Coastal Hazards



Coastal Flood Hazards and Impacts:

- ✓ **Coastal Flood Advisory:** Widespread minor to locally moderate coastal flooding (inundation 1 to 1 1/2 ft above ground) for vulnerable coastal communities in advisory area during the tonight/tomorrow AM high tide.
- ✓ Threat of localized moderate flooding (inundation around 2 ft above ground) mainly along western Great South Bay, W. LI Sound, and Peconic and Gardiners Bay

Shoreline Hazards and Impacts:




- ✓ 4-7' breaking waves along the oceanfront, resulting in beach erosion and flooding during times of high tide tonight/early tomorrow AM. Minor erosion impacts to dune base possible.
- ✓ 2 to 4' breaking waves along Western LI sound and LI twin forks shoreline will result in beach erosion and wave splash over bulkheads and seawalls.

Uncertainty:

- ✓ Magnitude of coastal flooding with the late tonight / tomorrow AM high tide will be dependent on timing of easterly gale winds backing from the E to NE and weakening. Forecast has been leaned towards a later wind shift, and higher surge scenarios based on low pressure track and intensity spread.

For the latest coastal flood forecasts (hydrographs and tables) and the tools to visualize the potential coastal impacts (zoomable potential inundation map, impact catalogs, climatology, etc.) in your area of concern please go to the [NWS New York, NY Coastal Flooding Page](#)

Coastal Flooding Thresholds

	Minor (CF Advisory)	Moderate (CF Warning)	Major (Warning)
Picture	 Westport	 Lindenhurst	 New Haven
Hazard	<ul style="list-style-type: none"> • Low threat of property damage...and no direct threat to life. • 1 to 2 ft of inundation in shoreline and vulnerable areas. 	<ul style="list-style-type: none"> • Elevated threat of property damage...with a risk to life if one places themselves in unnecessary danger. • 2 to 3 ft of inundation in shoreline and vulnerable areas. • Minor to no inundation of surrounding coastal communities. 	<ul style="list-style-type: none"> • Significant threat to life and property. • 3-5+ ft of inundation in shoreline and other vulnerable areas. • Minor to moderate inundation (1 to 3 ft) of surrounding coastal communities that rarely experience coastal flooding.
Impact	<ul style="list-style-type: none"> • A few shoreline and vulnerable roadways and adjacent properties will experience shallow flooding. 	<ul style="list-style-type: none"> • Several shoreline and vulnerable area home and businesses will experience water inside. • Several low-lying coastal and shoreline roads will be closed. • A few cars may take on water or even be destroyed. 	<ul style="list-style-type: none"> • Evacuations will be necessary for the most vulnerable shoreline and coastal areas. • Many coastal communities will experience damage...with some shoreline and flood prone homes and businesses being destroyed. • Many cars will likely be submerged or washed away. • Several sections of nearshore roads and escape routes will be impassable and a few could be washed out. • Flood waters may extend well inland in low lying areas.

Event Summary

- ✓ There remains the potential for a light accumulating snowfall down to the city/coast tomorrow afternoon/evening.
- ✓ Strong easterly wind gusts to 45 mph are possible across E LI/SE CT this evening into early Wednesday. Widespread northwesterly gusts 45 to 50 mph late tomorrow into Wednesday AM.